



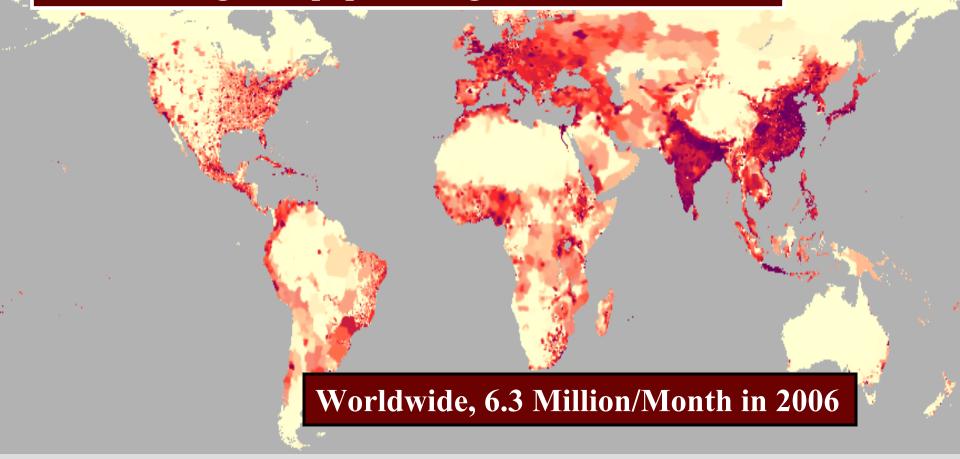
Changing Faces, Changing Places: Demographic Trends of the South

2000
Ken Cordell, Southern Research Station, FS R&D, Coauthors Carter Betz, Shela Mou, Gary Green (UGA)
and Mike Bowker---Southern Research Station

http://www.oldtelephonebooks.com/phusncab.htm

1970

The modern-day context of the United States and its Southern Region is population growth



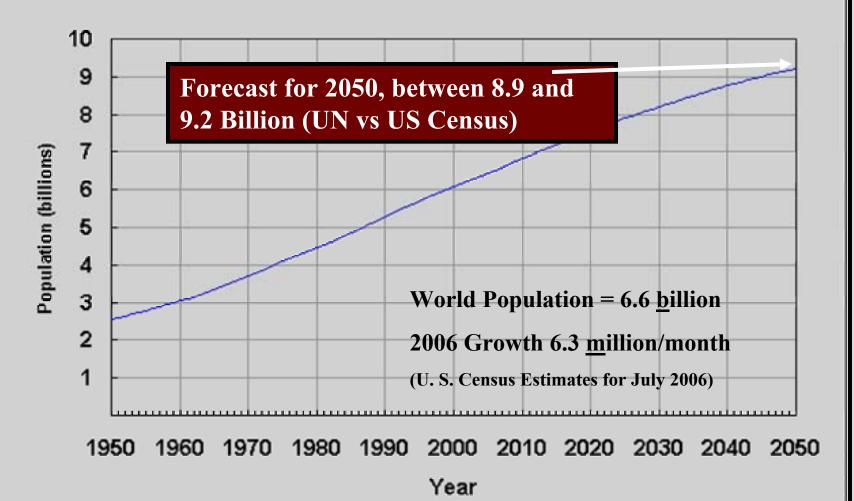
Population densities (per square km)



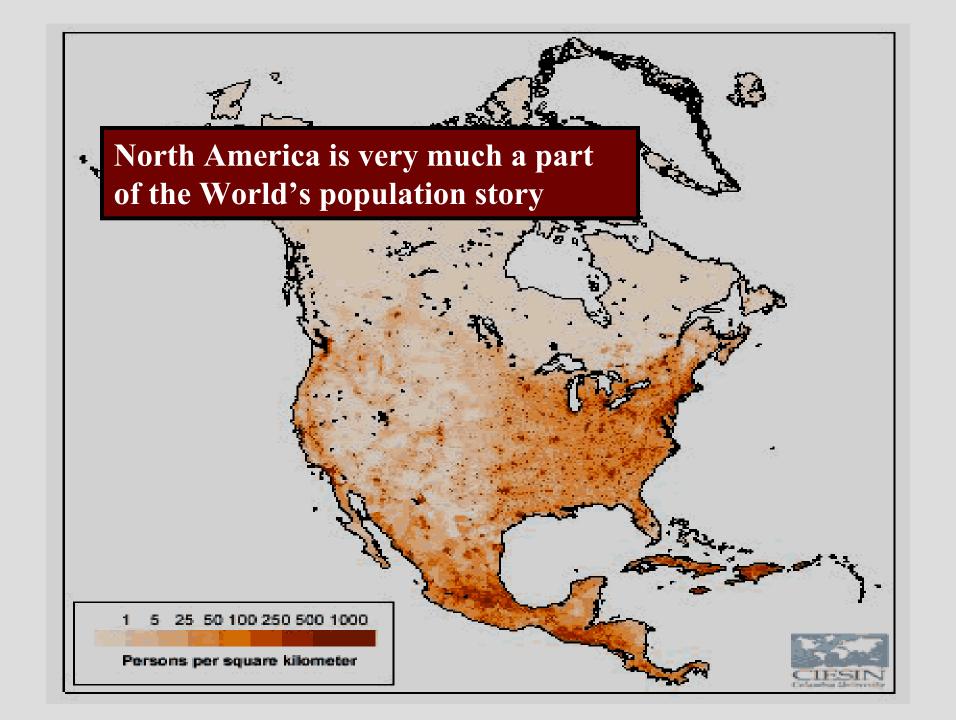


http://sedac.ciesin.columbia.edu/gpw/





Source: U.S. Census Bureau, International Data Base, April 2005 version.



POPULATION STATISTICS FOR THE U.S. (2006)

- •Population growth rate per year 0.91% (about 3 million per year)
- •Birth rate 14.14 births/1,000 population
- •Death rate 8.26 deaths/1,000 population
- •Immigration 3.18 migrant(s)/1,000

14.14 - 8.26 + 3.18 = 9.06/1,000

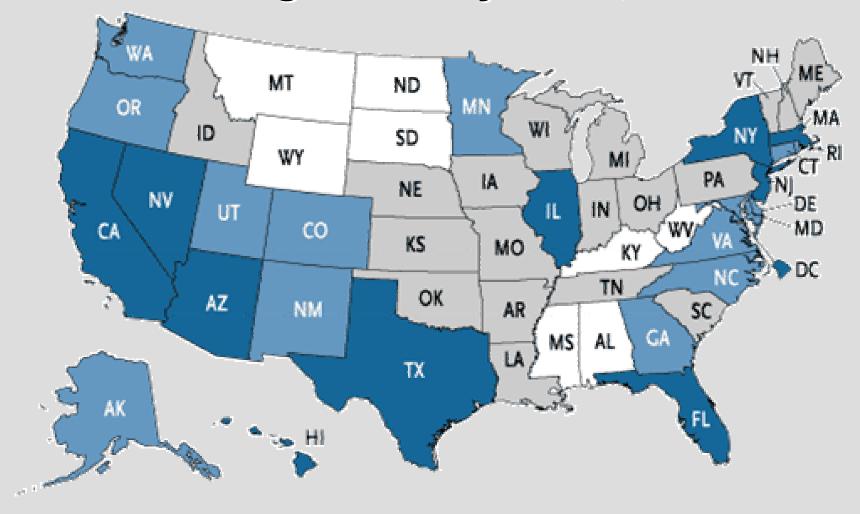
Life expectancy at birth

total population: 77.8 years

male: 75.0 years

female: 80.8 years (2006 est.)

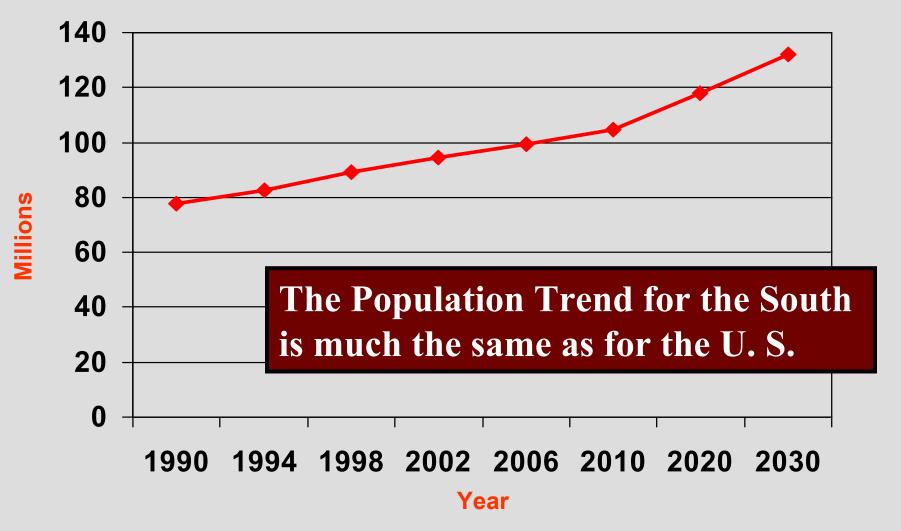
Percent Foreign-Born by State, 2003





Source: Population Reference Bureau analysis of the 2003 American Community Survey

Trend in Total Population for the South



Source: United States Bureau of Census and Woods-Poole Data Projections

Southern States – Population for 1990 & 2006 and Percentage Change

			Percentage
STATE	1990	2006	Change
GEORGIA	6512.602	9035.052	38.73
FLORIDA	13033.307	17894.089	37.30
TEXAS	17056.755	23126.538	35.59
NORTH CAROLINA	6664.016	8713.156	30.75
TENNESSEE	4894.492	6037.011	23.34
VIRGINIA	6216.884	7660.016	23.21
SOUTH CAROLINA	3501.155	4287.559	22.46
ARKANSAS	2356.586	2811.162	19.29
MISSISSIPPI	2578.897	2947.403	14.29
OKLAHOMA	3148.825	3592.128	14.08
KENTUCKY	3694.048	4203.696	13.80
ALABAMA	4050.055	4599.37	13.56
LOUISIANA	4221.532	4562.527	8.08

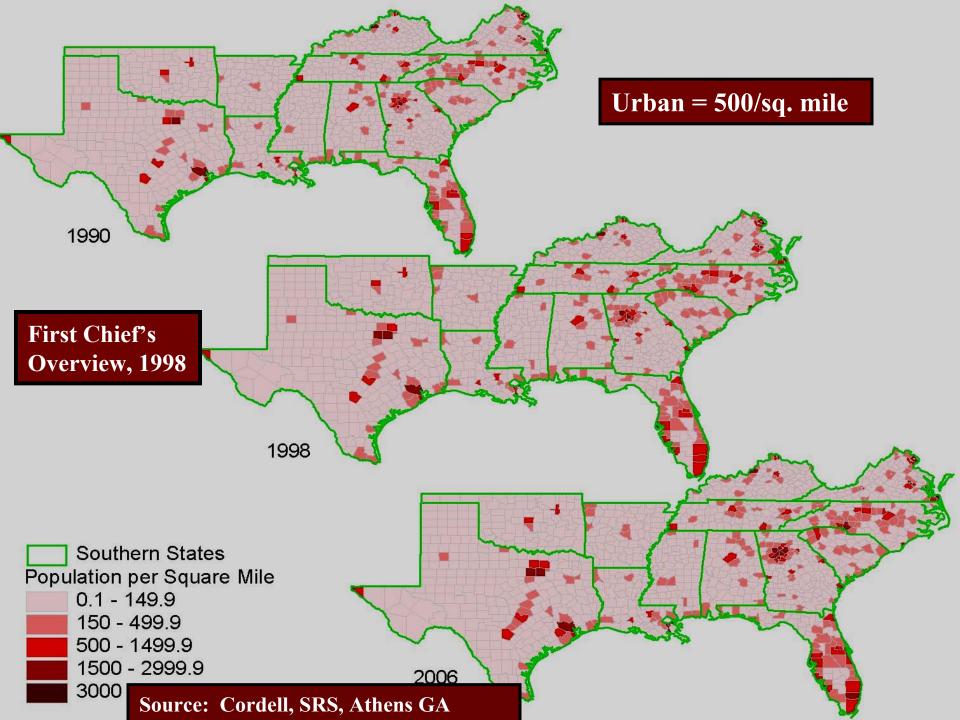
Source: Woods & Poole CEDDs Series

May not reflect Katrina impact

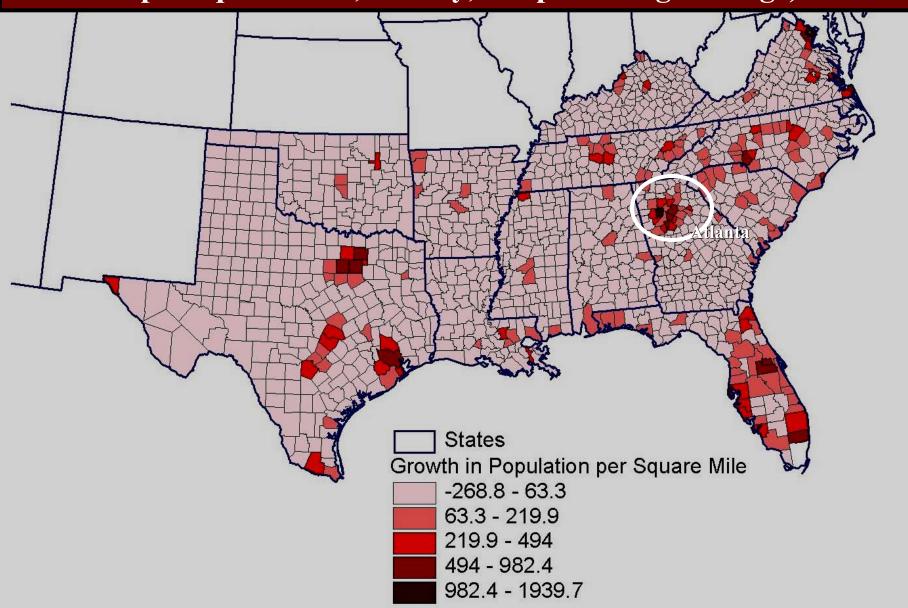
Southern Metro and Non-Metro population change for 1990-98 and 1998-2006 (Thousands)

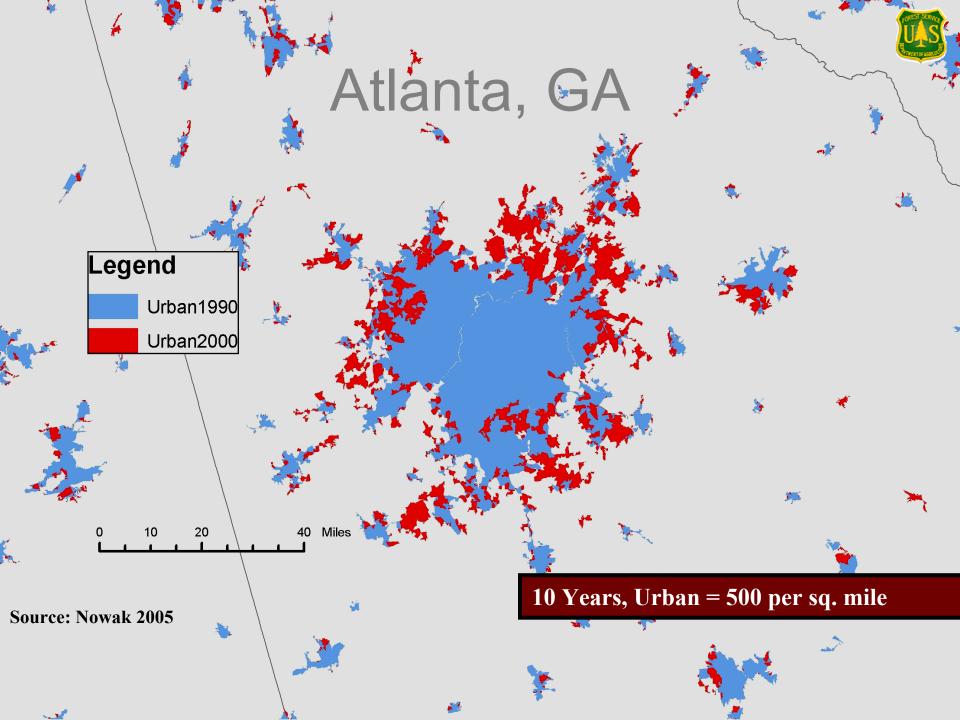
	1990 Total Population	1998 Total Population	Percent Change 1990- 1998	2006 Total Population	Percent Change 1998- 2006
Total population	77929.15	89373.70	14.7	99469.71	11.3
Non-metro counties	20629.94	22696.33	10.0	23932.79	5.4
Metro counties	57299.21	66677.36	16.4	75536.92	13.3

Numbers are still growing, but rate is declining somewhat



2006 and 2030 Projections of population density (growth in numbers per square mile, density, not percentage change)





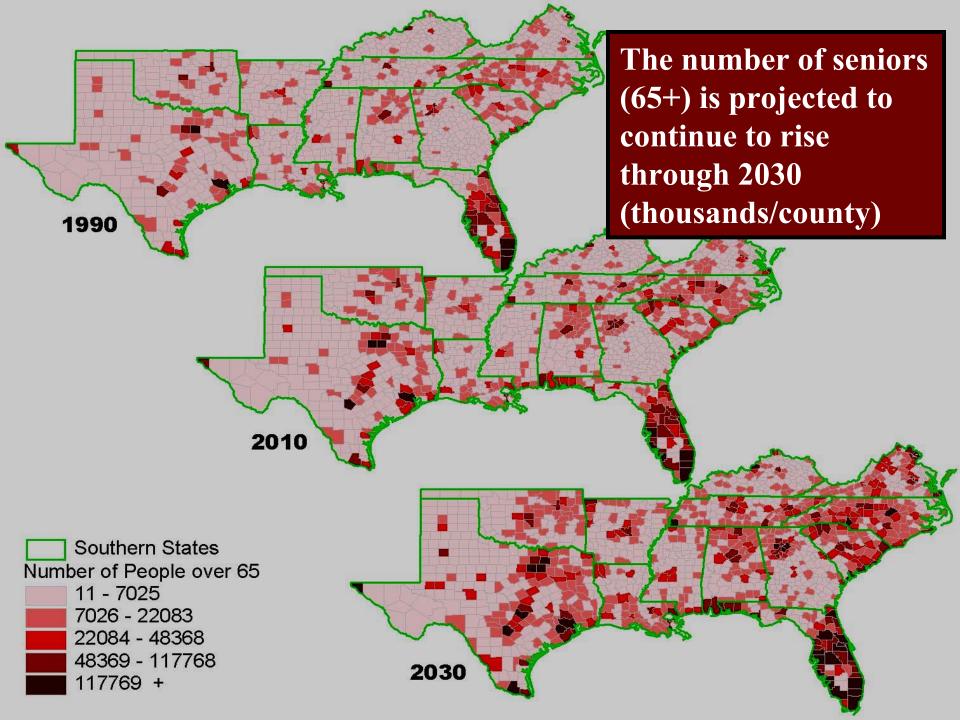
Trend in Southern Population by age group, 1990, 1998, & 2006

Age Group	1990 Percent Population	1998 Percent Population	2006 Percent Population
11ge Group	Topulation	Topulation	Topulation
<10	14.8	14.4	13.9
10-19	14.5	14.5	13.9
20-29	16.2	14.1	14.1
30-49	29.0	30.3	28.5
50-64	13.0	14.3	17.1
65+	12.6	12.5	12.4

Falling Rising

Percent of Population in the South by Age and State, 2006

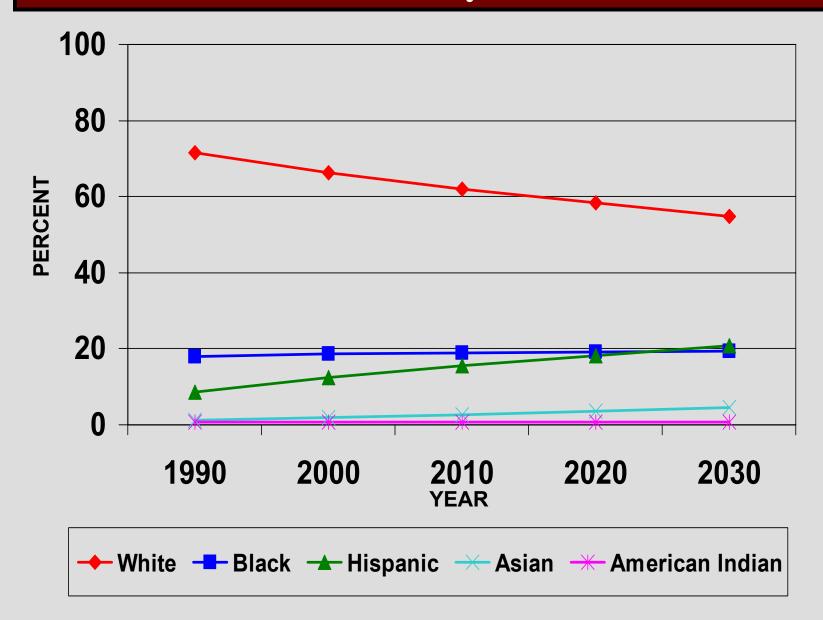
State	Persons below 35	Persons above 65
Florida	43.8	17.0
Arkansas	47.6	13.9
Alabama	47.3	13.2
Oklahoma	48.7	13.1
South Carolina	47.7	12.7
Tennessee	46.9	12.6
Kentucky	47.0	12.5
Mississippi	50.2	12.1
North Carolina	48.5	12.1
Louisiana	49.9	11.7
Virginia	47.3	11.5
Texas	52.8	9.8
Georgia	51.1	9.6

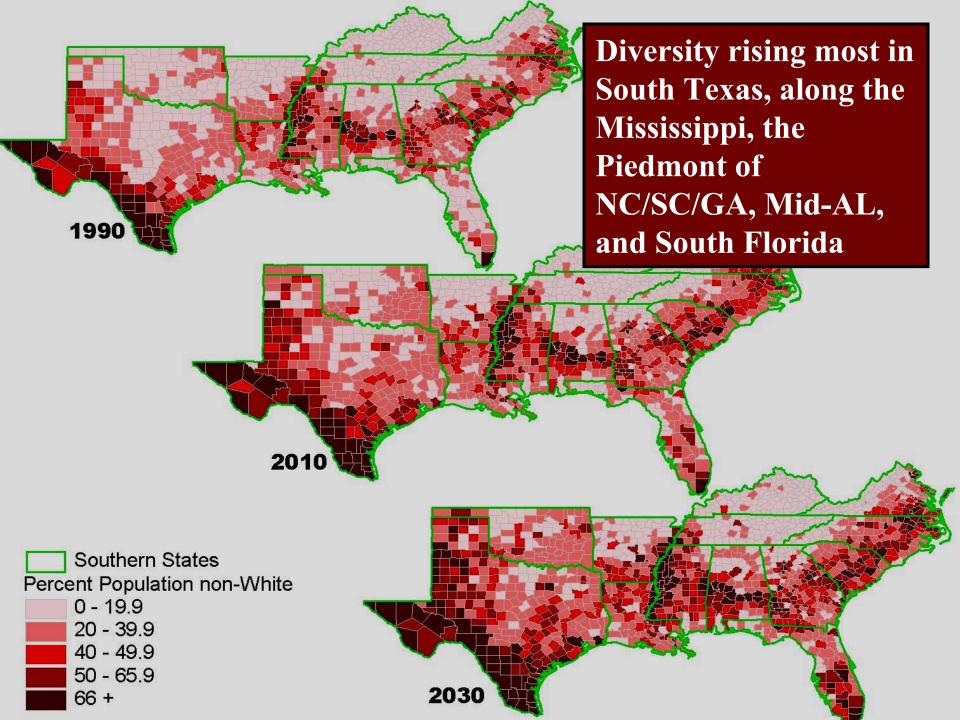


Percentage of Population by State and Race

State	Black	Hispanic	Asian
Texas	11.2	35.6	3.4
Florida	15.7	19.9	2.2
Georgia	28.9	6.7	2.8
Oklahoma	8.3	6.4	2.0
North Carolina	21.8	6.3	1.9
Virginia	20.1	5.9	4.8
Arkansas	16.1	4.2	1.1
South Carolina	30.2	3.1	1.2
Tennessee	17.0	2.9	1.4
Louisiana	33.4	2.7	1.6
Alabama	26.8	2.3	1.0
Kentucky	7.7	2.0	1.1
Mississippi	37.2	1.6	0.9

Racial and Ethnic Diversity will rise in the future

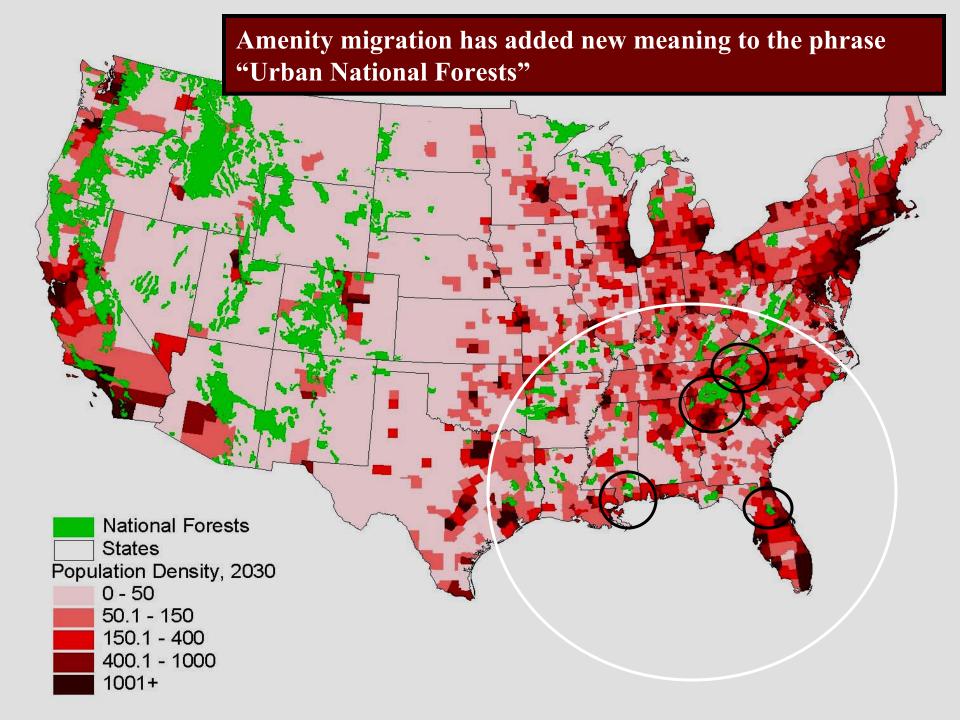




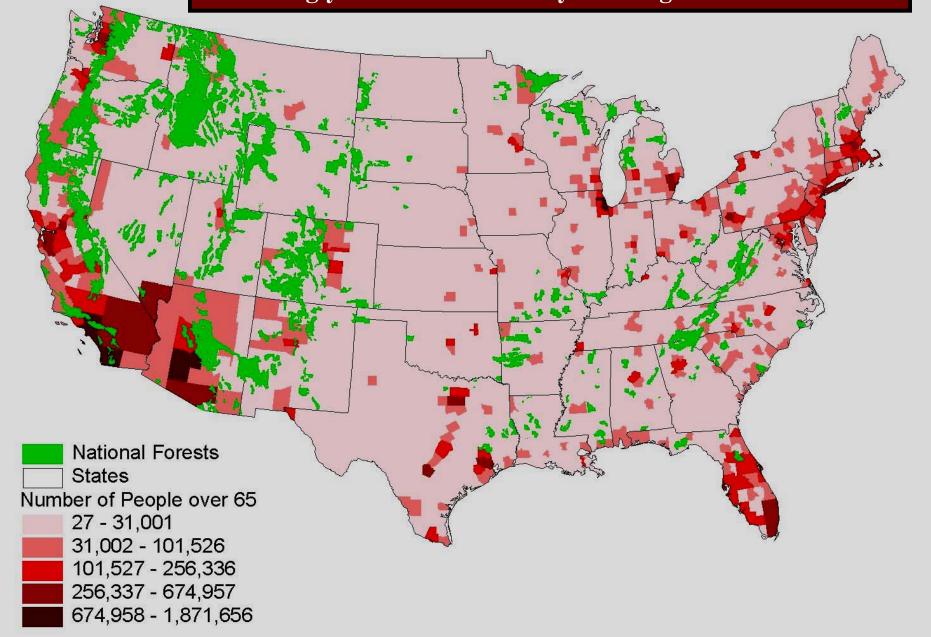
Down/Up

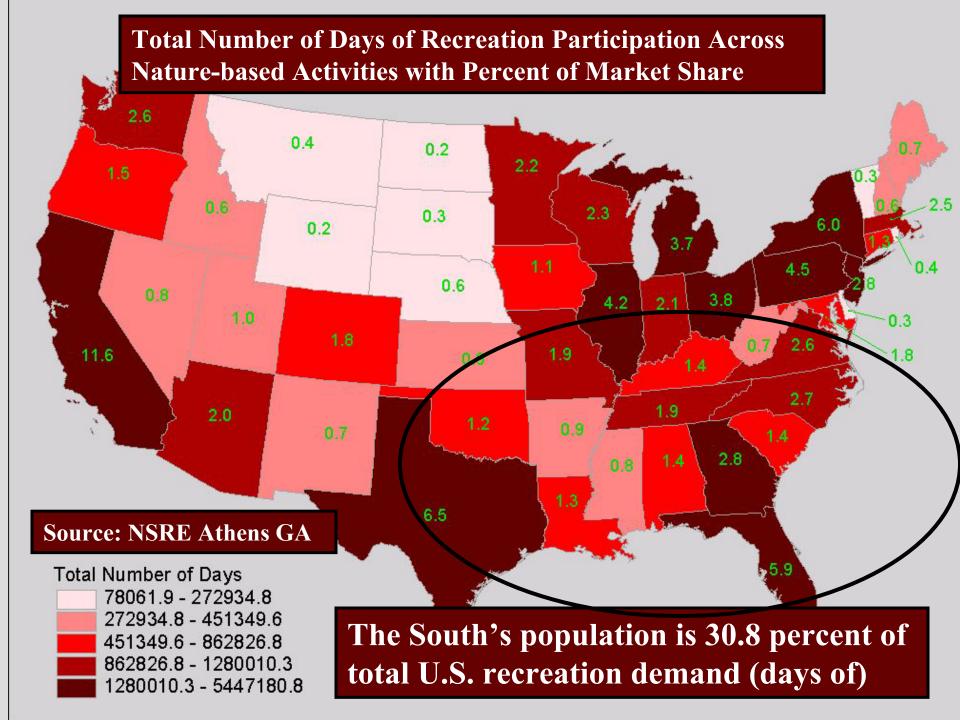
Percent of Population by Type of Employment by Year

Employment	1990 Percent	2010 Percent	2030 Percent
Farm	2.8	1.9	1.5
Agricultural Services, Other	1.1	1.4	1.4
Mining	1.4	0.7	0.7
Construction	5.8	6.2	6.2
Manufacturing	14.0	8.9	7.3
Transportation, Communications, Public Utilities	4.9	5.2	5.4
Wholesale Trade	4.7	4.3	4.1
Retail Trade	16.8	16.2	15.5
Finance, Insurance, Real Estate	6.8	7.9	7.4
Services	25.4	32.8	36.7
Federal Civilian Government	2.4	1.5	1.3
Federal Military Government	2.7	1.5	1.3
State & Local Government	11.4	11.4	11.4

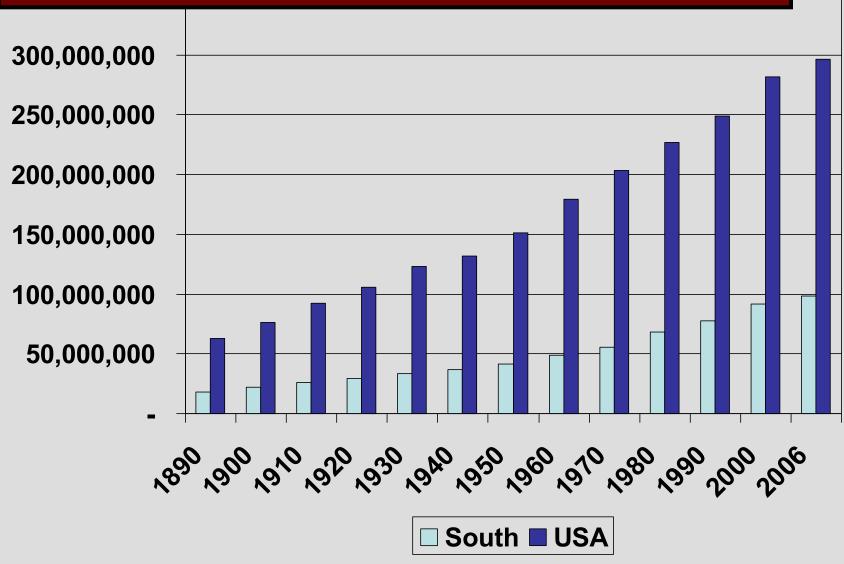


As the senior population expands, National Forests are increasingly the natural amenity drawing them as retirees

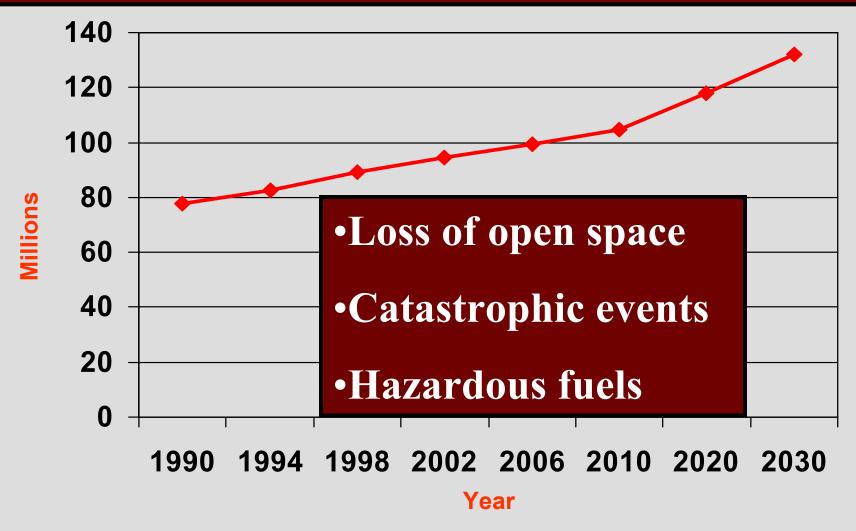




Historical Population Trend for the South-----Why are all these Demographic Trends Important??



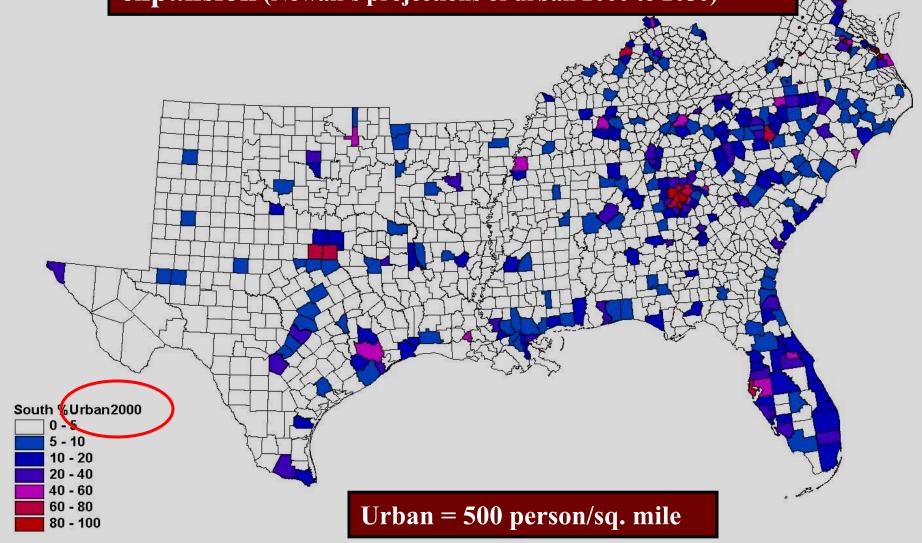
There will be forest management challenges brought about by growing and diversifying population in the South



Source: United States Bureau of Census and Woods-Poole Data Projections

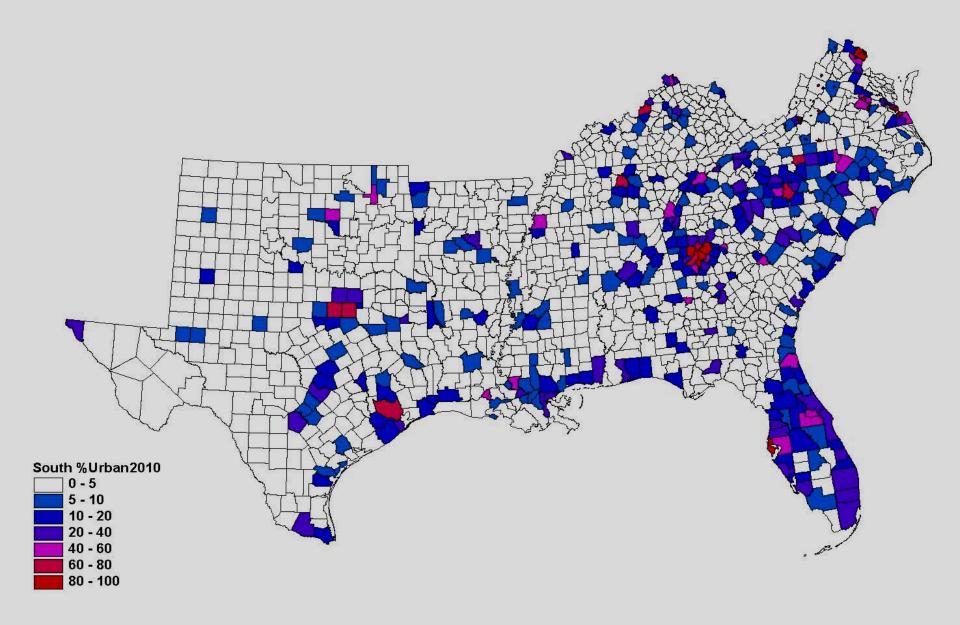


1. Population growth is driving rapid urban expansion (Nowak's projections of urban 2000 to 2050)



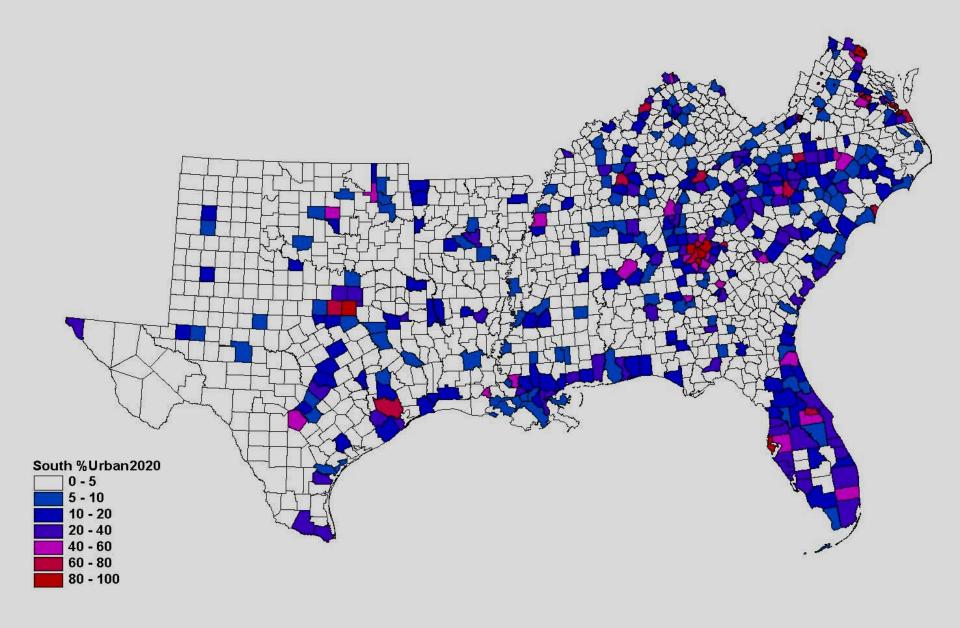
Percent Urban (2010)





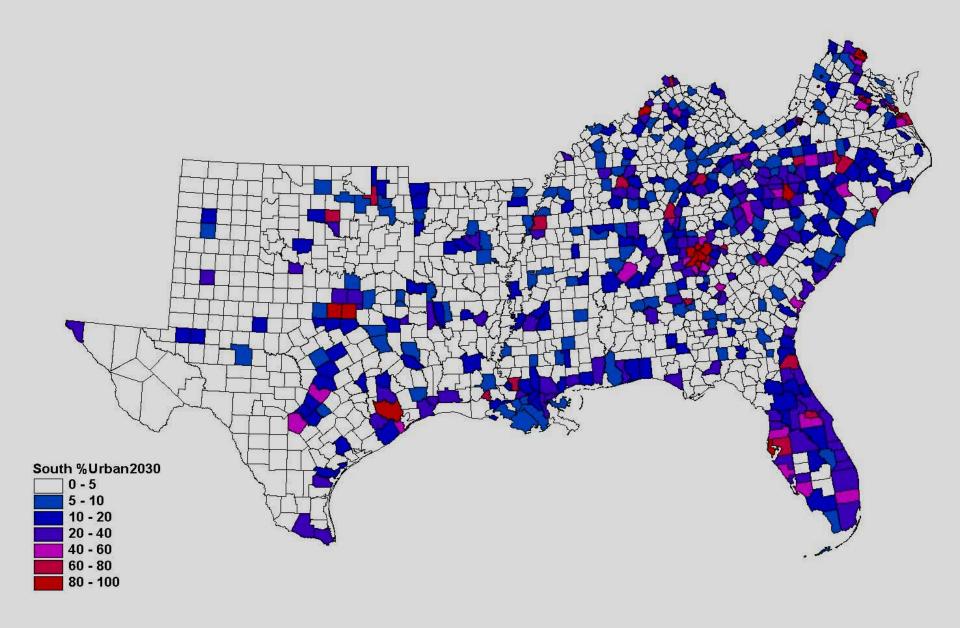
Percent Urban (2020)





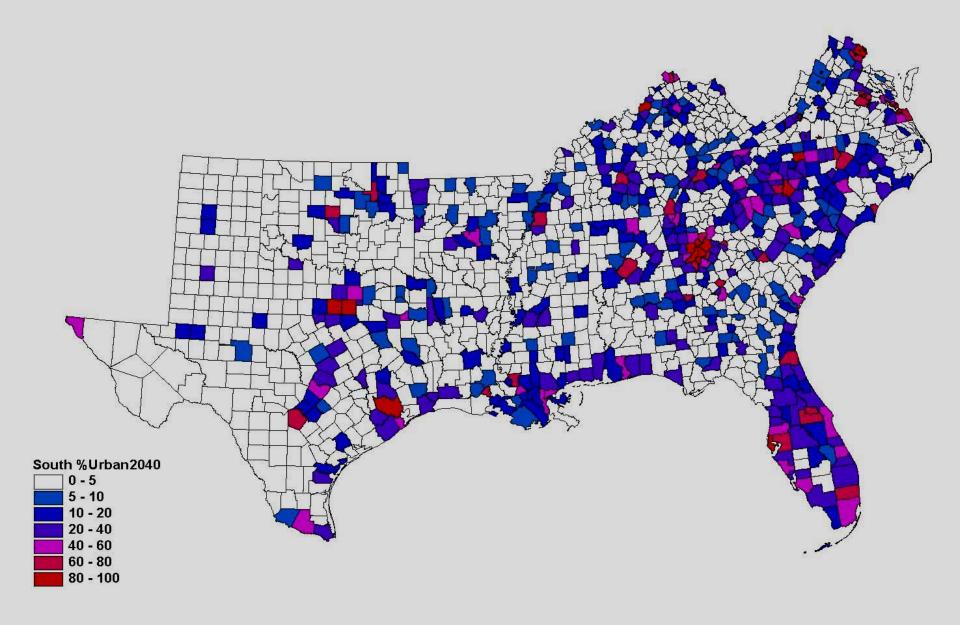
Percent Urban (2030)





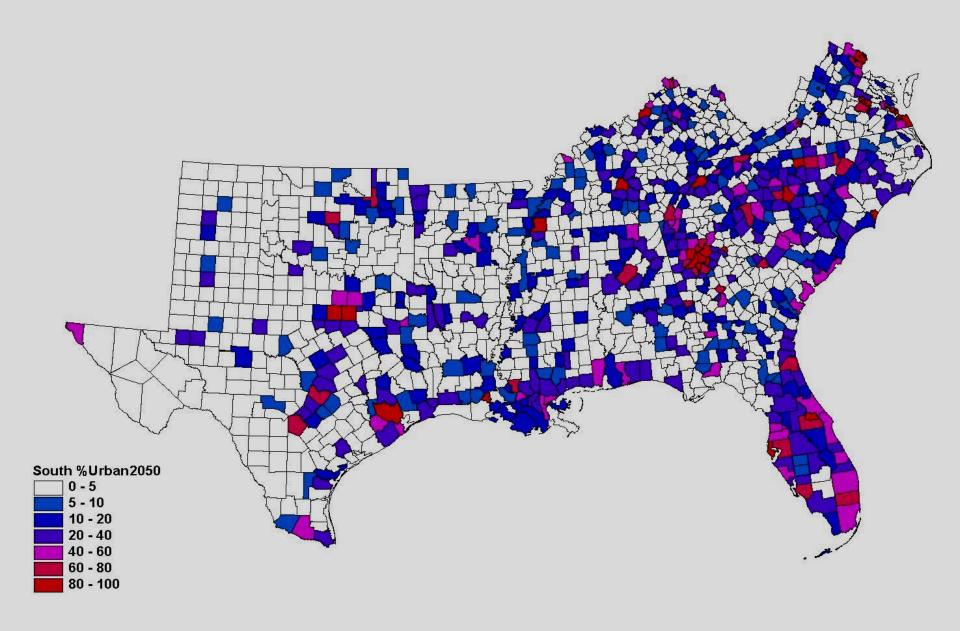
Percent Urban (2040)





Percent Urban (2050)





2. A lot more people live in the interface area, which we define as developing rural (Source, Athens Research Group)

	U.S.	North	South	Rocky Mtns.	Pacific Coast
Description of	(n=4988)	(n=2098	(n=1342	(n=932)	(n=616)
Area		(Perce	ent of Popul	ation)	
Established downtown area	9.2	9.7	8.6	8.6	9.6
Established older residential area near downtown	24.9	26.5	20.7	22.0	31.2
Established newer residential area	14.5	14.3	13.9	17.9 0%	12.7
Newly developing area where building is active	9.9	7.6	11.8	11.5	11.0
New residential and preexisting rural house and farms	16.9	17.9	17.6	15.3	14.7
Rural area with little new development	21.1	20.0	24.1	21.4	18.3
Don't know More	People li	ving in t	he wood	ds 3.3	2.5
Total	100.0	100.0	100.0	100.0	100.00

Five Example NF Values from our	High/Low Age					
survey of the General Public	16-24	25-34	35-44	45-54	55-64	65+
Protect streams and other sources of clean water	77.1	88.6	90.0	87.6	89.9	81.2
Use and manage forest areas in ways that leave them natural in appearance	56.4	70.2	73.2	70.5	73.0	57.6
Emphasize planting and management of trees for an abundant timber supply	41.7	58.8	62.8	62.8	67.3	61.2
Provide access, facilities, and services for outdoor recreation	28.2	39.6	40.9	47.3	48.4	50.9
Provide access to raw materials and products for	18.2	20.0	19.7	20.2	23.9	26.7
local industrice 3. Aging of the	popul	ation r	natters	s w.r.t.	forest	value

Blue = lowest Red = highest					
NATIONAL FOREST VALUES of General Public	White, NH	Black, NH	Amer. Ind. NH	Asian/ PI, NH	His- panic
Protect streams and other sources of clean water	86.9	84.1	93.3	78.2	84.2
Use and manage forest areas in ways that leave them natural in appearance	68.8	61.3	80.0	68.8	65.9
Emphasize planting and management of trees for an abundant timber supply	60.2	55.4	80.0	50.0	56.1
Provide access, facilities, and services for outdoor recreation	41.0	51.5	66.7	40.6	43.9
Provide access to raw materials for local industrials	19.0	23.8	13.3	25.0	39.0
and communities 4. Ri	ising div	ersity 1	natters w	r.t. fores	t values

5. Changing age distribution of the South's population will likely change recreation demands

Age Group	Visiting Wilderness	Driving Off Road	Mountain Biking	Viewing Natural Scenery	Viewing Birds	Family Gatherings
16-34	36.5	27.3	24.1	55.4	22.7	78.1
35-54	33.8	18.0	18.2	62.9	35.6	77.5
55+	22.8	10.3	7.1	55.5	39.5	67.9
All Ages	31.6	19.0	17.0	58.2	32.3	74.9

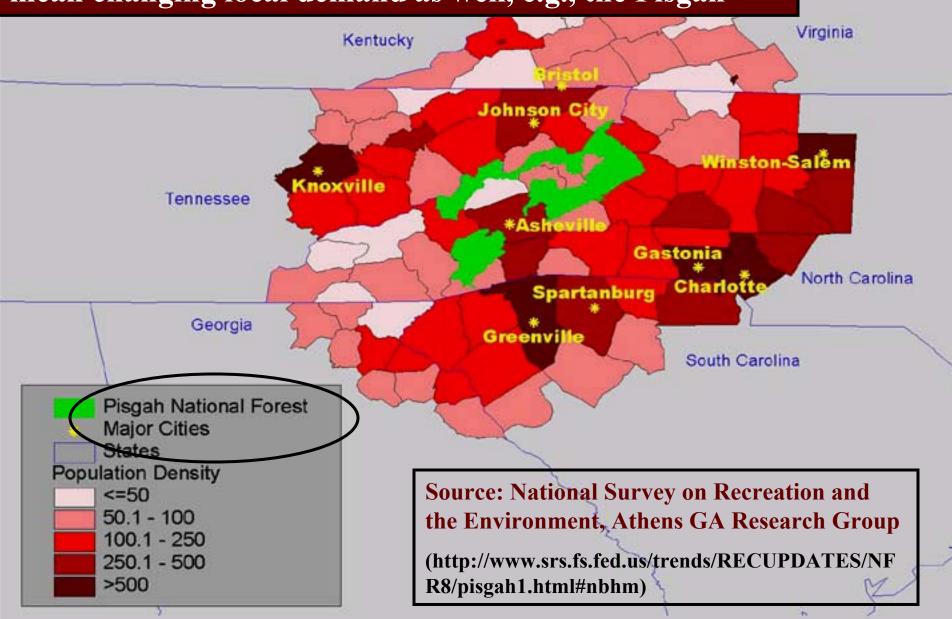
Source: National Survey on Recreation and the Environment, Athens, GA

Index of participants-to-total population for 6 outdoor activities by race and place of birth (national)

Group	Walking	Swimming Outdoors	Hiking	Driving Off-road	Downhill Skiing	Big Game Hunting		
Race/Ethnicity								
White	1.02	1.15	1.03	1.13	1.20	1.28		
Black	1.00	0.49	0.34	0.63	0.33	0.27		
Amer. Indian	1.00	1.00	1.14	1.57	1.57	2.00		
Asian/ PI	1.08	0.92	0.96	0.85	1.46	0.23		
Hispanic	0.88	0.75	1.42	0.74	0.55	0.43		
Place of Birth								
United States	1.02	1.04	0.93	1.05	1.05	1.07		
Foreign Born	0.81	0.56	1.67	0.48	0.44	0.30		

6. Rising diversity will likely change recreation demand

Rising population, aging, and growing diversity will mean changing local demand as well, e.g., the Pisgah



PISGAH National Forest Local Area-Population age 16 and older by race and age

Population stratum	Age 16- 34	%	Age 35- 53	%	Age 55+	%	All Ages 16+
Hispanic males	72,311	61.5	37,467	31.8	7,867	6.7	117,645
Hispanic females	44,210	57.6	24,722	32.2	7,850	10.2	76,782
White males	658,139	31.3	793,508	37.8	648,608	30.9	2,100,255
White females	645,063	28.5	810,398	35.8	806,705	35.7	2,262,166
Black males	119,392	42.2	109,114	38.5	54,616	19.3	283,122
Black females	126,680	38.1	127,231	38.2	79,017	23.7	332,928
Native American males	3,906	38.7	3,930	38.9	2,267	22.4	10,103
Native American females	3,636	35.4	4,126	40.1	2,517	24.5	10,279
Asian & Pacific Islander males	15,011	46.0	40.050	00.0	4.055	4.50	00.044
Asian & Pacific Islander	14,764	12 0	Source: National Survey on Recreation and the Environment, Athens GA Research Group				

1,703,112

7. Changing local populations at all NFs

(http://www.srs.fs.fed.us/trends/RECUPDATES/NF

R8/pisgah1.html#nbhm)

PISGAH National Forest Local Area

(Source: Recreation Research, Athens GA)

Viewing/Learning Activities: HISPANIC MALES

Age

16-34

34,822

45,629

25,677

29,118

22,703

18,880

11,878

20,466

16,441

15,505

Age

%

35-54

49.4

62.2

40.4

42.4

32.8

34.7

23.7

22.4

23.8

20.0

Age

35-54

18,498

23,320

15,137

15,887

12,271

12,999

8,868

8,381

8,921

7,495

Age

55+

44.9

46.7

38.1

33.7

27.9

36.9

25.0

16.9

17.7

22.3

%

Age

55+

3,536

3,673

2,997

2,655

2,192

2,902

1,967

1,332

1,392

1,757

#

All Ages

0/0

48.3

61.7

37.2

40.5

31.6

29.6

19.3

25.7

22.7

21.0

Percent (%) and number (#) of people age 16 and older participating in outdoor recreation by age group

Age

0/0

16-34

48.2

63.1

35.5

40.3

31.4

26.1

16.4

28.3

22.7

21.4

Activity

Sightseeing

Visit historic sites

View/photograph natural scenery

View/photograph other wildlife

Gather mushrooms, berries, etc.

Visit prehistoric/archeological sites

View wildflowers, trees, etc.

View/photograph birds

View/photograph fish

Visit nature centers, etc.

2006 Chief's Review Asheville NC, July 24-28



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http://www.oldtelephonebooks.com/phusncab.html

Population of the 13 Southern States by Race---1990, 2000, & 2005

	White (thousands)		Black (thousands)		American Indian & Alaskan Native (thousands)		Asian & Pacific Islander (thousands)			Hispanic (thousands)					
States	1990	2000	2005	1990	2000	2005	1990	2000	2005	1990	2000	2005	1990	2000	2005
Alabama	2986	3262	3391	1024	1137	1183	17	18	18	22	34	40	25	37	42
Arkansas	1953	2186	2286	375	409	423	13	15	16	13	19	22	20	33	40
Florida	11029	12588	13332	1793	2326	2573	37	51	58	159	267	316	1595	2390	2845
Georgia	4653	5436	5713	1762	2279	2515	14	17	18	78	142	168	110	189	226
Kentucky	3404	3671	3760	265	287	298	6	6	6	18	29	33	22	32	38
Louisiana	2857	2895	2923	1302	1448	1521	19	20	20	42	62	72	94	119	138
Mississippi	1639	1774	1826	917	1012	1049	9	8	8	13	19	23	16	21	24
North Carolina	5052	5851	6160	1470	1738	1857	81	94	98	54	96	113	77	121	139
Oklahoma	2618	2759	2825	236	282	311	258	281	295	35	51	58	87	124	143
South Carolina	2422	2660	2781	1046	1156	1205	8	8	8	23	33	33	31	42	50
Tennessee	4066	4658	4887	782	929	999	10	12	14	32	57	66	33	57	67
Texas	14579	16920	17916	2057	2543	2797	73	95	107	336	562	667	4375	5875	6624
Virginia	4860	5295	5457	1174	1416	1526	16	19	19	164	267	320	162	269	322

Source: Census Bureau, Projected state populations by sex, race, and hispanic origin: 1995-2025, & Population estimates for states by race and hispanic origin: July 1, 1990.